

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended): An ion-conductive ~~ion-conductive~~ thermoplastic composition comprising: containing
a partially acetalated polyvinyl alcohol, at least one support electrolyte, and at least one plasticizer plasticiser,

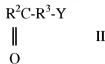
wherein said characterised in that the partially acetalated polyvinyl alcohol is a copolymer containing the monomer units of:

- vinyl acetate₂
- vinyl alcohol₁
- acetal I from vinyl alcohol and at least one aldehyde of with formula I



wherein R¹ is with R¹: branched or unbranched alkyl radical with 1 to 10 carbon atoms, and

- acetal II from vinyl alcohol and a carbonyl compound of with the formula II



wherein R² is with R²=H, or branched or unbranched alkyl radical with 1 to 10 carbon atoms, R³ is a [=] direct compound, branched or unbranched alkyl radical with 1 to 10 carbon atoms, or aryl radical with 6 to 18 carbon atoms₁ and Y is [=] - CO₂H, -SO₃H, or -PO₃H₂.

2. (Currently Amended): An ion-conductive ~~ion-conductive~~ thermoplastic composition according to claim 1, wherein characterised in that the ratio of the acetal I to acetal II monomer units in the partially acetalated polyvinyl alcohol of acetal I to acetal II is 1:1 to 10,000:1.

3. (Currently Amended): An ion-conductive ~~ion-conductive~~ thermoplastic composition according to claim 1, wherein characterised in that the partially acetalated polyvinyl alcohol contains:

- 0.01 to 5 % by weight of polyvinyl acetate₂
- 10 to 40 % by weight of vinyl alcohol₁ and
- 40 to 80 % by weight of acetals I and II₁

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4. (Currently Amended): ~~An ion-conductive~~ ion-conductive thermoplastic composition according to claim 1, ~~wherein acid-functionalized~~ characterised in that acid-functionalised aldehydes are used as said carbonyl compound of formula II.

5. (Withdrawn; Currently Amended): An electrochromic ~~Electrochromic~~ composite system comprising ~~build-up of~~ two bodies coated with electrodes, at least one of which is transparent, and at least one exhibits an electrochromic film, wherein said bodies which are separated by a foil with a composition according to claim 1.

6. (Withdrawn; Currently Amended): An electrochromic ~~Electrochromic~~ composite system according to claim 5, ~~wherein~~ characterised in that at least one of the electrochromic films contains a metal polycyanometalate, transition metal oxide, or conductive polymer modifying the color ~~colour~~ on cathodic reduction.

7. (Withdrawn; Currently Amended): An electrochromic ~~Electrochromic~~ composite system according to claim 5, ~~wherein~~ characterised in that at least one of the electrochromic films contains a metal polycyanometallate, transition metal oxide, or conductive polymer modifying the color ~~colour~~ on anodic oxidation.

8. (Withdrawn; Currently Amended): A process ~~Process~~ for the production of an ion-conductive foil, comprising: ~~by extrusion of~~ extruding a mixture of;

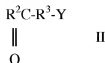
a) 50 – 90% by weight of a partially acetalated polyvinyl alcohol containing the monomer units of:

- vinyl acetate,
- vinyl alcohol,
- acetal I from vinyl alcohol and at least one aldehyde of ~~with~~ formula I



wherein R¹ is ~~with R¹:~~ branched or unbranched alkyl radical with 1 to 10 carbon atoms, and

- acetal II from vinyl alcohol and a carbonyl compound of ~~with the~~ formula II



wherein R² is ~~with R²=H,~~ or branched or unbranched alkyl radical with 1 to

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10 carbon atoms, R³ is a [=] direct compound, branched or unbranched alkyl radical with 1 to 10 carbon atoms, or aryl radical with 6 to 18 carbon atoms, and Y is [=] - CO₂H, -SO₃H, or -PO₃H₂;

- b) 10 to 50% by weight of at least one plasticizer, plasticiser and
- c) 0.1 to 25% by weight of at least one support electrolyte

9. (Withdrawn; Currently Amended): A process ~~Process~~ according to claim 8, wherein characterised in that the extrusion is carried out under melt fracture conditions.

10. (Withdrawn; Currently Amended): A process ~~Process~~ according to claim 8, wherein characterised in that the foil is embossed on one side or both sides with a roughness of R₂ of 40-120 µm.

11. (New): An ion-conductive thermoplastic composition according to claim 1, wherein said composition comprises:

- 50 to 90 % by weight of said partially acetalated polyvinyl alcohol;
- 10 to 50 % by weight of said at least one plasticizer, and
- 0.1 to 25 % by weight of at least one support electrolyte.

12. (New): An ion-conductive thermoplastic composition according to claim 1, wherein said composition comprises:

- 50 – 70 % by weight of said partially acetalated polyvinyl alcohol;
- 20 to 40 % by weight of said at least one plasticizer, and
- 2 – 10 % by weight, of at least one support electrolyte.

13. (New): An ion-conductive thermoplastic composition according to claim 1, wherein said acetal II is obtained from vinyl alcohol and/or vinyl alcohol units of polyvinyl alcohol and an acid-functionalized aldehyde, wherein acid-functionalized aldehyde is glyoxylic acid or pyruvic acid.

14. (New): An ion-conductive thermoplastic composition according to claim 1, wherein said acetal I is obtained by reacting vinyl alcohol and/or vinyl alcohol units of polyvinyl alcohol with at least one aldehyde selected from formaldehyde, acetaldehyde, propanal, n-butanal, isobutanal, pentanal, hexanal, heptanal, octanal and/or nonanal.

15. (New): An ion-conductive thermoplastic composition according to claim 1, wherein the ratio of the acetal I to acetal II monomer units in the partially acetalated polyvinyl alcohol is 10:1 to 1000:1.

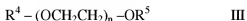
16. (New): An ion-conductive thermoplastic composition according to claim 1, wherein the ratio of the acetal I to acetal II monomer units in the partially acetalated polyvinyl alcohol is 100:1 to 1000:1.

17. (New): An ion-conductive thermoplastic composition according to claim 1, wherein the partially acetalated polyvinyl alcohol contains;

- 0.01 to 5 % by weight of polyvinyl acetate,
- 15 to 35 % by weight of vinyl alcohol, and
- 45 to 75 % by weight of acetals I and II.

18. (New): An ion-conductive thermoplastic composition according to claim 1, wherein at least one support electrolyte comprises LiClO₄, LiPF₆, LiSbF₆, LiAsF₆, Li(CF₃COO), LiBF₄, LiCF₃SO₃, Li₂C₂O₄, LiN(SO₂CF₃)₂ or lithium bisoxalatoborate (LiC₄BO₈).

19. (New): An ion-conductive thermoplastic composition according to claim 1, wherein said at least one plasticizer is a compound of formula III



wherein R⁴ and R⁵ each represent identical or different, branched or unbranched, cyclic or acyclic, aliphatic and/or aromatic hydrocarbon radicals with 1 to 15 carbon atoms or H, and n is 1 - 5.

20. (New): An electrochromic composite system according to claim 5, wherein said at least one of which is transparent electrode comprises indium-doped tin oxide, aluminum-doped zinc oxide, fluorine-doped tin dioxide, or antimony-doped tin dioxide.